

Hematology

| | | |
|------------|----------------|---------------------|
| WBC | 8.9 | 4.0 - 11.0 x E9/L |
| RBC | HI 5.31 | 4.00 - 5.10 x E12/L |
| Hemoglobin | 125 | 120 - 160 g/L |
| Hematocrit | 0.395 | 0.350 - 0.450 L/L |
| MCV | LO 74 | 80 - 100 fL |
| MCH | LO 23.5 | 27.5 - 33.0 pg |
| MCHC | 316 | 305 - 360 g/L |
| Platelets | 304 | 150 - 400 x E9/L |
| RDW | HI 16.5 | 11.5 - 14.5 % |

Differential

| | | |
|-------------|-----|------------------|
| Neutrophils | 6.2 | 2.0 - 7.5 x E9/L |
| Lymphocytes | 2.2 | 1.0 - 3.5 x E9/L |
| Monocytes | 0.4 | 0.2 - 1.0 x E9/L |
| Eosinophils | 0.1 | 0.0 - 0.5 x E9/L |
| Basophils | 0.0 | 0.0 - 0.2 x E9/L |

Morphology

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|-----------------------|--|
| WBC Morphology | NORMAL |
| RBC Morphology | Few Elliptocytes/Ovalocytes Slight Microcytosis |
| Platelet Morphology | NORMAL |
| Pathologist Review -- | |

RBC indices and features suggestive of
thalassemia or hemoglobinopathy. Recommend
hemoglobin fractionation only if status unknown.

Hemoglobinopathy/Thalassemia Investigation**Hemoglobin Investigation**

| | | |
|---|--|---------------|
| Hemoglobin A2 | LO 0.022 | 0.023 - 0.034 |
| Hemoglobin C/Total Hemoglobin | NOT DETECTED | |
| Hemoglobin E/Total Hemoglobin | NOT DETECTED | |
| Hemoglobin F/Total Hemoglobin | <0.010 | 0.000 - 0.020 |
| Hemoglobin S/Total Hemoglobin | NOT DETECTED | |
| Hemoglobin Fractionation Abnormal Peaks | A Hb A2 level that is not elevated largely excludes Beta thalassemia trait, but not Alpha thalassemia. If Alpha thalassemia is suspected, please order a Hb H Preparation. | |

Biochemical Investigation of Anemias

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|-------------|---------------|----------------|
| Vitamin B12 | HI 886 | 138-652 pmol/L |
| Ferritin | 56 | 5-272 ug/L |

Urinalysis**Urinalysis Chemical**

| | | |
|------------------|--------|---------------|
| Colour | YELLOW | NONE/YELLOW |
| Appearance | CLEAR | CLEAR |
| Specific Gravity | 1.010 | 1.001 - 1.030 |
| pH | 5.0 | 5.0 - 8.0 |

| | | |
|--------------------|------------------------|-----------------|
| Protein | NEGATIVE | NEGATIVE g/L |
| Glucose | NEGATIVE | NEGATIVE mmol/L |
| Ketones | HI = OR >8.0 | NEGATIVE mmol/L |
| Erythrocytes | NEGATIVE | NEGATIVE mg/L |
| Nitrite | NEGATIVE | NEGATIVE |
| Leukocyte Esterase | HI 75 | NEGATIVE WBC/uL |

General Chemistry

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|-----------------------------------|---------------|------------------------|
| Glucose Fasting | LO 3.1 | 3.6 - 6.0 mmol/L |
| Hemoglobin A1C | 5.1 | <6.0 % |
| Sodium | 141 | 135-145 mmol/L |
| Potassium | HI 5.7 | 3.5-5.2 mmol/L |
| Creatinine | 64 | 50-100 umol/L |
| Glomerular Filtration Rate (eGFR) | 117 | > OR = 90ml/min/1.73m2 |
| Urate | HI 442 | 150-390 umol/L |
| Albumin | 46 | 35-52 g/L |
| Bilirubin Total | HI 21 | <20 umol/L |
| Alkaline Phosphatase | 48 | 35-120 U/L |
| Alanine Aminotransferase | 8 | <36 U/L |
| Lactate Dehydrogenase | 141 | 110-230 U/L |

Lipids

Everything was normal in the lipid panel

Thyroid Function

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|-----------------------------------|----------------|-----------------|
| Thyroid Stimulating Hormone [TSH] | LO 0.31 | 0.32-4.00 mIU/L |
|-----------------------------------|----------------|-----------------|

Pituitary Function

| | | |
|------------------------------------|-----------|---|
| Follicle Stimulating Hormone [FSH] | 8.9 IU/L | Follitropin (FSH) female reference intervals ----- Follicular: 3.0-8.0 IU/L Mid-cycle: 3.0-22.0 IU/L Luteal: 1.5-5.5 IU/L Post-menopausal: 27.0-133.0 IU/L |
| Luteinizing Hormone [LH] | 29.7 IU/L | Lutropin (LH) female reference intervals ----- Follicular: 2.0-12.0 IU/L Mid-cycle: 8.0-90.0 IU/L Luteal: 1.0-14.0 IU/L Post-menopausal: 5.0-62.0 IU/L |

Adrenocorticotrophic Hormone [ACTH]

| | | |
|-------------------------------------|-----|---------------|
| Adrenocorticotrophic Hormone [ACTH] | 2.0 | < 14.0 pmol/L |
| Collection Time 11:30 | | |

Cortisol AM

| | | |
|-----------------------|-----|----------------|
| Cortisol AM | 309 | 135-537 nmol/L |
| Collection Time 07:51 | | |

Reproductive and Gonadal

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|-----------|------------|
| Estradiol | 476 pmol/L |
|-----------|------------|

Estradiol adult female reference intervals

Follicular: 77-921 pmol/L
Mid-cycle: 139-2382 pmol/L
Luteal: 77-1145 pmol/L
Post-menopausal: <103 pmol/L

Progesterone

2.0 nmol/L

Progesterone adult female reference intervals

Follicular: <1.7 nmol/L
Luteal: 4.0-50.0 nmol/L
Post-menopausal: <1.7 nmol/L

Dehydroepiandrosterone [DHEA-S]

7.8

< 9.8 umol/L

Microbiology

Urine Culture

Specimen Source

MIDSTREAM URINE

Colony Count

>100 x E6 CFU/L

Culture Status

Final

Organism

1) *Lactobacillus species*

Organism(s) in culture considered to be non-pathogens; suggestive of specimen contamination.